

## NEW COMBINATIONS IN HYMENOXYS

K. F. PARKER

Inasmuch as the species upon which the genus *Actinea* was based (*A. heterophylla*) has proven to belong to the genus *Helenium*, it is necessary to utilize *Hymenoxys* Cass., the next available name, for those other entities formerly placed under *Actinea*. The following new combinations, proposed in a monograph of the genus, are presented at this time in order to make the names immediately available to other workers who may wish to use them. Complete synonymy is included in the forthcoming monograph.

1. *Hymenoxys Torreyana* (Nutt.) comb. nov. *Actinella Torreyana* Nutt. Trans. Am. Philos. Soc. II, 7: 379. 1841.
2. *Hymenoxys acaulis* (Pursh) comb. nov. *Gaillardia acaulis* Pursh, Flora Am. Sept. 2: 743. 1816, as *Galardia*.
3. *HYMENOXYS ACAULIS* (Pursh) Parker var. *glabra* (A. Gray) comb. nov. *Actinea scaposa* Nutt. var. *glabra* A. Gray, Man. Bot. N. U. S. ed. 5: 263. 1867.
4. *HYMENOXYS ACAULIS* (Pursh) Parker var. *arizonica* (Greene) comb. nov. *Tetraneurus arizonica* Greene, Pittonia 3: 266. 1898.
5. *HYMENOXYS ACAULIS* (Pursh) Parker var. *caespitosa* (A. Nels.) comb. nov. *Tetraneurus acaulis* (Pursh) Greene var. *caespitosa* A. Nels. Bot. Gaz. 28: 127. 1899.
6. *HYMENOXYS ACAULIS* (Pursh) Parker var. *Ivesiana* (Greene) comb. nov. *Tetraneurus Ivesiana* Greene, Pittonia 3: 269. 1898.
7. *Hymenoxys scaposa* (DC.) comb. nov. *Cephalophora scaposa* DC. Prodromus 5: 663. 1836.
8. *HYMENOXYS SCAPOSA* (DC.) Parker var. *linearis* (Nutt.) comb. nov. *Actinella scaposa* Nutt. var. *linearis* Nutt. Trans. Am. Philos. Soc. II, 7: 379. 1841.
9. *Hymenoxys argentea* (A. Gray) comb. nov. *Actinella argentea*, A. Gray, Plant. Fendl. 100. 1849.
10. *Hymenoxys Brandegei* (Porter) comb. nov. *Actinella Brandegei* Porter ex A. Gray, Proc. Am. Acad. 13: 373. 1878.
11. *Hymenoxys grandiflora* (Torr. & Gray) comb. nov. *Actinella grandiflora* Torr. & Gray, Bost. Jour. Nat. Hist. 5: 109. 1845.
12. *Hymenoxys Bigelovii* (A. Gray) comb. nov. *Actinella Bigelovii* A. Gray, Plant. Wright. 2: 96. 1852.
13. *HYMENOXYS RICHARDSONII* (Hook.) Ckll. var. *floribunda* (A. Gray) comb. nov. *Actinella Richardsonii* Hook var. *floribunda* A. Gray. Plant. Fendl. 101. 1849.
14. *HYMENOXYS COOPERI* (A. Gray) Ckll. var. *canescens* (D. C. Eaton) comb. nov. *Actinella Richardsonii* Hook. var. *canescens* D. C. Eaton in Watson, King Geol. Expl. 40th Par. 5: 175. 1871.

University of Arizona, Tucson